

From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCT		
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)		
Applicant's or agent's file reference				(day/month/year) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION		
see form PCT/ISA/220				See paragraph 2 below		
International application No. PCT/US2004/023917			International filing date (d 22.07.2004	(day/month/year) Priority date (day/month/year) 13.08.2003		
International Patent Classification (IPC) or both national classification and IPC C07C19/08, C07C19/10, C07C21/18						
Applicant PCBU SERVICES, INC.						
1.	This opinion contains indications relating to the following items:					
	☑ Box No. I	Basis of the op	pinion			
	☐ Box No. II	Priority				
	☐ Box No. III	Non-establishr	ment of opinion with rega	rd to novelty, inventiv	e step and industrial applicability	
	☐ Box No. IV	Lack of unity o		•	, , ,	
	☑ Box No. V	Reasoned stat applicability; ci	ement under Rule 43 <i>bis</i> tations and explanations	.1(a)(i) with regard to supporting such state	novelty, inventive step or industrial ement	
	☐ Box No. VI	Certain docum	ents cited			
	☐ Box No. VII		in the international appl			
	☐ Box No. VIII	Certain observ	ations on the internation	al application		
2.	FURTHER ACTION					
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply when the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority dat whichever expires later.				owever, this does not apply where	
					nts, before the expiration of three	
	For further option	ns, see Form PC	T/ISA/220.			
3.	For further details, see notes to Form PCT/ISA/220.					
			•			
Name and mailing address of the ISA:				Authorized Officer		

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

	Вох	No. I Basis of the opinion				
1.	. With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	With	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:					
		a sequence listing				
		table(s) related to the sequence listing				
	b. fo	b. format of material:				
	⊏	l in written format				
		in computer readable form				
	c. tin	c. time of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Additional comments:					



International application No. PCT/US2004/023917

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-83

Inventive step (IS)

Yes: Claims

No: Claims

1-83

Industrial applicability (IA)

Yes: Claims

1-83

No: Claims

2. Citations and explanations

see separate sheet

D1: WO 03/029173 A (PCBU SERVICES INC) 10 April 2003 (2003-04-10)

D2: EP-A-0 434 409 (DU PONT) 26 June 1991 (1991-06-26)

D3: EP-A-0 253 410 (AUSIMONT SPA) 20 January 1988 (1988-01-20)

D4: US-B1-6 291 729 (RAO V N MALLIKARJUNA) 18 September 2001 (2001-09-18)

Section V.

- 1). The claims lack novelty as detailed in the search report or are considered to relate to subject-matter which is trivial in view of the novelty destroying embodiments of the prior art.
- 2). Where conditions presently claimed include reaction conditions of the prior art, but the co-formation of particular products, e.g. olefins is not specifically mentioned in the prior art, the burden of proof is considered to lie with the applicant that such products are not also formed in the prior art.
- 3). Reactions presently claimed catalysed by a mixture of Cu and Pd have been performed in the prior art: see the 6th to 8th entries on p.39 of D1 and p.9, lines 31-35 of D2. Claims relating to such reactions are therefore not novel.
- 4). Inter alia run no.1 in column 3 of D4 relates to a presently claimed reaction catalysed by Pd and conducted in a Nickel tube. This is considered novelty destroying for the Pd/Ni catalysed embodiment of present claim 7.
- 5). Present reactions catalysed by a combination of Cu and Pd are suggested by D1 inter alia as detailed above, p.9, lines 31-35 of D2 and claim 1 of D3. Insofar as particular ratios of these elements are to be used as a catalyst, it is not apparent how this is inventive.
- 6). Combinations of Ni and Pd as catalyst in the present type of reactions are suggested by claim 1 of D3. It is not apparent how these are presently inventive.